

REMARKS

This application has been carefully reviewed in light of the Office Action mailed March 22, 2006.

Claims 1, 8 and 9 have been amended. Claim 3 has been cancelled. Reconsideration and favorable action in this application is respectfully requested.

The courteous and professional telephone interview granted applicant and applicant's attorney on May 5, 2006 is noted with appreciation.

In accordance with the suggestions made by the Examiner, claim 1 has now been amended to more particularly define the present complex bandpass filter including an I input and 90-degree phase shifted Q input; an I output and 90-degree phase shifted Q output and cross-coupled transconductors for generating an unsymmetrical complex bandpass transfer function. As discussed during the interview, the present invention relates to a complex bandpass filter, and neither of the cited references disclose such a complex filter. The present invention is directed to a continuous-time complex system wherein the transfer function is unsymmetrical in the frequency domain, meaning that the transfer function transmits signals for positive frequencies and blocks signals for negative frequencies as well as transmitting signals for negative frequencies and blocking signals for positive frequencies in the alternative. The Pennock amplifier is directed solely to a continuous-time real system meaning that its transfer function is symmetrical in the frequency domain, or that it transmits equally for both positive and negative frequencies.

The Sevenhans et al. reference discloses a real bandpass filter, and not a complex bandpass filter as presently claimed in claim 1.

It is therefore respectfully submitted that neither of the cited references anticipate the present invention, and allowance of claim 1 is respectfully requested. Claim 4 and 8-14, further define the present invention, and it is respectfully submitted that these dependent claims are also in condition for allowance.

In view of the foregoing, allowance of claims 1, 4 and 8-14 is respectfully requested. If the Examiner has any questions regarding this amendment, the Examiner is respectfully requested to telephone the undersigned attorney.

Respectfully submitted,



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May 11, 2006
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